

5004765



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

D412-742-013
Job Sheet 166743-A



Tel (613) 632-5200

Part No: D412-742-013 Job Qty: 1 ea

Part Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible



Part Weight: 0 lbs Status: Scheduled Priority: Medium

Job Tracking No: Job Created: 10/16/17 Due Date: 10/27/17

Created By: Victoria Michaud-Febrille Description:

Customer: Aeroservicios Especializados SA de CV - ASESA (CASES01)

Calle Rio San Lorenzo #699 Int 102, San Pedro Garza Garcia Fuentes Del Valle, Nuevo Leon, 66220 Mexico

ph:52-938-382-2113 fx:52-938-384-0535

Ship Via:

Bill of Materials

Op No	Operation	Qty	Due Date	Setup Run		Workcenter / Supplier	Lead Time
				hrs	Hrs		
90	Start up Operation	1 Ea	10/27/17	0.00	0.00	Start up container	
100	DC	1 pcs	10/27/17	0.00	0.00	DC	
110	Packaging	1 pcs	10/27/17	0.00	0.00	Packaging1	
120	QC	1 pcs	10/27/17	0.00	0.00	QC4	
130	Packaging	1 pcs	10/27/17	0.00	0.00	Packaging3	
140	QC21-FG	1 Ea	10/27/17	0.00	0.00	QC21	

Part Op 100 - Photocopy bluefile and create labels per PPP D412-742-013 CHG009
Descriptions: 130 - Identify and pack for shipping as per PPP D412-742-013

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
110-Packaging	AN3037A 5004936	1	68	0	0
	AN3040A 500 fm131627	1	6	0	0
	AN3041A 5004934	1	415	0	0
	AN3042A 5004918	1	60	0	0
	AN3043A 5004884	4	22	0	0
	AN3046A 5004877	5	175	0	0
	AN4047A 5004813	4	71	0	0
	AN4052A 5004812	4	55	0	0
	AN4053A 5004811	4	99	0	0
	AN406A 5004810	16	364	0	0
	AN407A 5004807	4	181	0	0
	AN6012A fm1316237	8	57	0	0
	D2571 5004967	1	13	0	0
	D2572 5004965	1	11	0	0
	D2573 5004965	1	14	0	0
	D2574 5004964	1	8	0	0
	D2747 fm131623	4	159	0	0
	B2876 5004787	2	73	0	0
	B2877 5004786	2	62	0	0
	D3403-1 fm1316302	8	8	0	0
	D3403-3 500476372	8	65	0	0
	D3403-5 5004761	8	65	0	0
	D3405-041 5004747	1	19	0	0
	D3405-043 5004742	1	20	0	0

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS																																																											
Part No. _____		Rework ☐ Scrap ☐		Skid-tube ☐ Machining ☐ Forming ☐		Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐																																																									
NCR No. _____		Suspected		Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐		Engineering ☐ Quality ☐ Other ☐																																																									
Date: _____		Step #: _____		MRB (QSI042) Approval																																																											
Description Work Order Deviation																																																															
S006143 Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag PART NO: Revision: Operation: Quantity: Change No:																																																															
Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 CANADA TEL.: 1 613 632-5200 Email: sales@dartaero.com www.dartaerospace.com																																																															
led By _____ d / Supervisor _____ al Verification _____ QA Coordinator Approval _____																																																															
D412-742-013 Start up Operation 1																																																															
Mfg Date: 11/06/17 Job No: 166743-A																																																															
<table border="1"> <thead> <tr> <th colspan="4">Root Cause</th> </tr> </thead> <tbody> <tr> <td>Environment</td> <td>☐</td> <td>No Re-verification</td> <td>☐</td> </tr> <tr> <td>Design</td> <td>☐</td> <td>Operator</td> <td>☐</td> </tr> <tr> <td>Doc/Data</td> <td>☐</td> <td>Offset/Setup</td> <td>☐</td> </tr> <tr> <td>Equip/Tooling</td> <td>☐</td> <td>Supplier</td> <td>☐</td> </tr> <tr> <td>Handling/Pre</td> <td>☐</td> <td>Training</td> <td>☐</td> </tr> <tr> <td>Material</td> <td>☐</td> <td>Use for Testing</td> <td>☐</td> </tr> <tr> <td>Internal Transport</td> <td>☐</td> <td>Poor Information</td> <td>☐</td> </tr> <tr> <td>Tribal Knowledge</td> <td>☐</td> <td>Rushing</td> <td>☐</td> </tr> <tr> <td>LOA</td> <td>☐</td> <td>Product Improvement</td> <td>☐</td> </tr> <tr> <td>Substation</td> <td>☐</td> <td>Process Improvement</td> <td>☐</td> </tr> <tr> <td>Past Expiry Date</td> <td>☐</td> <td>Manufacturing Process</td> <td>☐</td> </tr> <tr> <td>Misidentified</td> <td>☐</td> <td>Past Due</td> <td>☐</td> </tr> <tr> <td colspan="4">OTHER: _____</td> </tr> </tbody> </table>								Root Cause				Environment	☐	No Re-verification	☐	Design	☐	Operator	☐	Doc/Data	☐	Offset/Setup	☐	Equip/Tooling	☐	Supplier	☐	Handling/Pre	☐	Training	☐	Material	☐	Use for Testing	☐	Internal Transport	☐	Poor Information	☐	Tribal Knowledge	☐	Rushing	☐	LOA	☐	Product Improvement	☐	Substation	☐	Process Improvement	☐	Past Expiry Date	☐	Manufacturing Process	☐	Misidentified	☐	Past Due	☐	OTHER: _____			
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D3407-041 <i>S003771</i>	1	15	0	0
D3417-3 <i>F160609X1</i>	2	48	0	0
D3456-1 <i>S003770</i>	1	40	0	0
D3533-1 <i>S003766</i>	2	47	0	0
D3672-11 <i>S003765</i>	8	1,089	0	0
D3672-3 <i>S003764</i>	32	2,040	0	0
D3672-9 <i>F114963</i>	8	1,974	0	0
D412-742-043 <i>S004765</i>	1	0	0	0
MS21043-3 <i>S003721</i>	13	917	0	0
MS21043-1 <i>S003720</i>	29	797	0	0
NAS1149C0332R <i>S003713</i>	26	2,674	0	0
NAS1149C0432R <i>S003710</i>	32	1,500	0	0
NAS1149C0632R <i>S003709</i>	8	181	0	0

Part Specifications

Specifications could not be found.

Plex 10/16/17 1:28 PM dart.Michaud-Febrille.Victoria

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

(CONTINUED FROM PAGE 21)

Item	Qty -013	Qty -043	Part Number	Description
40	1		D2571	SADDLE, FWD OUTSIDE
41	1		D2572	SADDLE, FWD INSIDE
42	1		D2573	SADDLE, AFT OUTSIDE
43	1		D2574	SADDLE, AFT INSIDE
44	2		D2876	SADDLE SPACER
45	2		D2877	SADDLE SPACER
46A	8		D3403-1	BUSHING
46B	8		D3403-5	BUSHING
47A	4		D2747	SET SCREW
47B	2		D3533-1	SET SCREW
48	16		AN4C6A	BOLT
49A	4		AN4C52A	BOLT
49B	4		AN4C53A	BOLT
50	8		AN6C12A	BOLT
51A	32		D3672-3	WASHER (REPLACES NAS1515H4L)
51B	32		AN960C416L	WASHER
52A	8		D3672-9	WASHER (REPLACES NAS1515H6L)
52B	8		AN960C616L	WASHER
53	8		D3672-11	WASHER (REPLACES NAS1515H7L)
54	24		MS21043-4	NUT
55	4		AN4C7A	BOLT
56	2		D3591-1	BUSHING
60	8		D3403-3	BUSHING
61	1		D3405-041	GHW LUG
62	1		D3405-043	GHW LUG
63	4		AN4C47A	BOLT
64	4		MS21043-4	NUT
70	1		D3407-041	TOW RING
71	2		D3417-3	WASHER
72	1		MS21043-4	NUT
73	1		D3456-1	WASHER
91	1		AN3C37A	BOLT
92	1		AN3C40A	BOLT
93	1		AN3C41A	BOLT
94	1		AN3C42A	BOLT
95	4		AN3C43A	BOLT
97	5		AN3C46A	BOLT
99	26		AN960C10L	WASHER
100	13		MS21043-3	NUT

*DENOTES PART IS INCLUDED WITH D3391-043 ASSEMBLY ABOVE

**DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

5.2 D412-742-013 (DART TRI-BAG) Float Skidtube Installation Parts List

Item	Qty -013	Qty -043	Part Number	Description
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE
		1	D3391-043	412 FLOAT SKIDTUBE
1		*24	*AN3C4A	*BOLT
3		*10	*AN3C6A	*BOLT
4		*4	*AN3C7A	*BOLT
5		*38	*AN960C10L	*WASHER
21		*1	*D4095-041	*WEARSHOE (REPLACES D3564-1)
22		*1	*D4095-043	*WEARSHOE (REPLACES D3564-3)
23		*1	*D4095-045	*WEARSHOE (REPLACES D3564-5)
10		*1	*D3391-021	*412 FORWARD TUBE
11		**1	**D3401-041	**TOW CAP
12A		**10	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB166)
13		**10	**AN3C4A	**BOLT
14A		**4	**D3672-1	**WASHER (REPLACES NAS1515H3L)
14B		**10	**AN960C10L	**WASHER
24		**1	**D4095-051	**WEARSHOE (REPLACES D3564-13)
20		*1	*D3391-023	*412 MID TUBE
28		**20	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB116)
30		*1	*D3391-025	*412 AFT TUBE
25		**1	*D4095-049	**WEARPAD (REPLACES D3537-1)
26		**1	*D4095-047	**WEARPAD (REPLACES D3537-7)
31		**1	**D2646	**AFT CAP
32		**14	**AELS-1032-130	**INSERT
36		**8	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB366)
37A		**6	**AN3C4A	**BOLT
37B		**4	**AN3C5A	**BOLT
38A		**2	**D3672-1	**WASHER (REPLACES NAS1515H3L)
38B		**10	**AN960C10L	**WASHER

(CONTINUED ON PAGE 22)

DART
AEROSPACE
S004765

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CANADA

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Email: sales@dartaero.com
www.dartaerospace.com



Repl. Skidtube Fits LH or RH, High Gear, DART (Apical)
Tri-Bag Float Comp.

PART NO: D412-742-043

Revision:

Operation:

Quantity:

Change No:

Packaging

1

Mfg Date: 11/01/17

Job No: 166749-A